

Commonwealth of Kentucky
Division for Air Quality

PERMIT APPLICATION SUMMARY FORM

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General Information

Name:	Federal Bureau of Prisons, USP Big Sandy
Address:	1197 Airport Road, Inez, Kentucky 41224
Date application received:	July 27, 2006
SIC/Source description:	40419
Source ID #:	21-159-00025
AI #:	40419
Activity I.D.#:	APE20060001
Permit number:	F-06-050

Application type/Type/Permit Activity

<input type="checkbox"/> Initial issuance	<input type="checkbox"/> General permit
<input type="checkbox"/> Permit modification	<input checked="" type="checkbox"/> Conditional major
__Administrative	<input type="checkbox"/> Title V
__Minor	<input type="checkbox"/> Synthetic minor
__Significant	<input checked="" type="checkbox"/> Operating
<input checked="" type="checkbox"/> Permit renewal	<input type="checkbox"/> Construction/Operating

Compliance Summary

<input type="checkbox"/> Source is out of compliance	<input type="checkbox"/> Compliance schedule included
<input checked="" type="checkbox"/> Compliance certification signed	

Applicable Requirements list

<input type="checkbox"/> NSR	<input checked="" type="checkbox"/> NSPS	<input type="checkbox"/> SIP
<input type="checkbox"/> PSD	<input type="checkbox"/> NESHAPS	<input type="checkbox"/> Other

Miscellaneous

- ☐ Acid rain source
- ☐ Source subject to 112(r)
- ☒ Source applied for federally enforceable emissions cap
- ☐ Source provided terms for alternative operating scenarios
- ☐ Source subject to a MACT standard
- ☐ Source requested case-by-case 112(g) or (j) determination
- ☐ Application proposes new control technology
- ☒ Certified by responsible official
- ☐ Diagrams or drawings included
- ☐ Confidential business information (CBI) submitted in application
- ☐ Pollution Prevention Measures
- ☐ Area is non-attainment (list pollutants):

Emissions Summary

Pollutant	Natural Gas		#2 Fuel Oil	
	**Actual (tpy) vs. Potential (tpy)		**Actual (tpy) vs. Potential (tpy)	
PM	1.76	1.76	0.15	8.27
SO ₂	.145	.145	0.13	222.28
NO _x	24.12	24.12	2.47	92.48
CO	20.32	20.32	1.66	38.34
VOC	1.33	1.33	0.12	3.25

** Actual Based on Current EIS Reported Values:

Source Description:

The Division received a renewal application for the existing permit F-02-013 Revision 1, for Federal Bureau of Prisons, USP Big Sandy on July 27, 2006. The Federal Bureau of Prisons, USP Big Sandy consists of the following emission points (EP): three (3) 17.9 mmBTU/hr gas/oil fired hot water boilers (EP-01-03), one (1) 1.5 mmBTU/hr gas fired steam boiler (EP-04), three (3) 1.176 mmBTU/hr gas/oil fired hot water boilers (EP-05 EP-06, and EP-07), four diesel fired emergency generators rated at 2550 hp (EP-08), 2935 hp, each (EP-09 & EP-10), and 275 (EP-11). Potential to emit calculations were based on 8760 hours per year.

EMISSION AND OPERATING CAPS DESCRIPTIONS:

The permittee is limiting source-wide emissions of sulfur dioxide (SO₂) less than 90 tons per year in order to preclude the applicability of 401 KAR 52:020. Sulfur content of the fuel oil shall not exceed 0.5 percent by weight.

OPERATIONAL FLEXIBILITY:

None